

Coin Change [\(View\)](#)

You are given an integer array `coins` representing coins of different denominations and an integer `amount` representing a total amount of money.

Return *the fewest number of coins that you need to make up that amount*. If that amount of money cannot be made up by any combination of the coins, return `-1`.

You may assume that you have an infinite number of each kind of coin.

Example 1:

Input: `coins = [1,2,5]`, `amount = 11`

Output: `3`

Explanation: `11 = 5 + 5 + 1`

Example 2:

Input: `coins = [2]`, `amount = 3`

Output: `-1`

Example 3:

Input: `coins = [1]`, `amount = 0`

Output: `0`

Constraints:

- `1 <= coins.length <= 12`
- `1 <= coins[i] <= 231 - 1`
- `0 <= amount <= 104`